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Data Sheet

August 5, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N6733A DC Power Supply, 20 V, 2.5 A, 50 W, Programmable

Keysight (Agilent) N6733A DC Power Supply, 20 V, 2.5 A, 50 W, Programmable The Keysight/Agilent N6733A is an N6700 Series basic DC power module rated 0–20 V / 0–2.5 A / 50 W for N6700 modular power systems or N6705 DC Power Analyzer mainframes. Same rating class as the later N6733B 50 W module. One-slot programmable V/I with measurement and protection. Modular multi-rail ATE; fixture control; bench multi-output systems in N6700/N6705 mainframes. The Keysight/Agilent N6733A is an N6700 Series basic DC power module rated 0–20 V / 0–2.5 A / 50 W for N6700 modular power systems or N6705 DC Power Analyzer mainframes. Same rating class as the later N6733B 50 W module. One-slot programmable V/I with measurement and protection. Modular multi-rail ATE; fixture control; bench multi-output systems in N6700/N6705 mainframes.



MODEL

**Keysight / Agilent
N6733A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N6733A

LISTING

<https://aumictechlabs.com/products/n6733a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N6733A is a single-channel programmable DC power module engineered for integration into N6700 or N6705 series modular power systems. This 1-slot module delivers 20 V at 2.5 A maximum output, with 50 W total power capability. It combines voltage programming accuracy of $\pm 0.1\%$ + 20 mV with current readback accuracy of $\pm 0.15\%$ + 20 mA, making it suitable

for device testing, system characterization, and ATE resource allocation.

Technical Specifications

DC Output Ratings Maximum output voltage: 20 V Maximum output current: 2.5 A Maximum output power: 50 W Output range: 0–20 V, 0–2.5 A Measurement Performance (23°C ±5°C) Voltage programming accuracy: ±0.1% + 20 mV Current readback accuracy: ±0.15% + 20 mA Output ripple and noise (20 Hz–20 MHz): 3 mV RMS / 14 mV peak-to-peak (constant voltage mode); 2 mA RMS (constant current mode) Operating Environment Temperature range: 0°C to 55°C Input voltage (AC): 86–240 V Physical dimensions: 585.6 mm (L) × 432.5 mm (W) × 44.45 mm (H)

Key Features Single output channel with independent voltage and current control Low output noise: 3 mV RMS in constant voltage operation Fast current measurement readback for dynamic load testing Input voltage range accommodates global AC supply variations Compact 1-slot form factor integrates into existing power system chassis

Typical Applications Device-under-test (DUT) power delivery in development and production environments; automated test equipment (ATE) resource provisioning; bench-top and rack-mounted system power distribution.

Compatibility & Integration The N6733A operates within the N6700 Low-Profile Modular Power System and N6705 DC Power Analyzer mainframes. Both platforms support GPIB, LAN, USB, and LXI communication standards for remote programming and measurement. Optional relay modules (Option 760: output disconnect and polarity reversal; Option 761: output disconnect) are available for enhanced circuit protection.

Features & description

From manufacturer datasheet

Features

- 0–20 V / 0–2.5 A / 50 W • One-slot N6700 / N6705 module • Basic DC power module class (N673xA/B 50 W family) • Optional output disconnect (761) / polarity reversal (760) family options • Host provides GPIB/LAN/USB/LXI

N6733A Characteristics / Specifications

PARAMETER	VALUE
The Keysight/Agilent N6733A is an N6700 Series basic DC power module rated	20 V / 0–2.5 A / 50 W for N6700 modular power systems or N6705 DC Power Analyzer mainframes. Same rating class as the later N6733B 50 W module. One-slot programmable V/I with measurement and protection.
Model	N6733A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Modular DC Power Supply Module
Family	N6700 Series (N6731–N6736 50 W class)
Alias	N6733A; Agilent N6733A DC Output
Voltage	0 to 20 V
Current	0 to 2.5 A
Power	50 W Ripple (N6733B/N6743B voltage-group class)
CV rms	3 mV (from N6700 specs guide PARD table for this voltage group) Host Requires N6700-series MPS or N6705 DC Power Analyzer mainframe Operational Notes N6733B is the later B-revision with the same 20 V / 2.5 A / 50 W ratings. Prefer Keysight N6700 Series Specifications Guide.

N6733A Specifications

PARAMETER	VALUE
Applications	Modular multi-rail ATE; fixture control; bench multi-output systems in N6700/N6705 mainframes.
Key Features	- 0–20 V / 0–2.5 A / 50 W
Technical Specifications	Model: N6733A
DC Output	Voltage: 0 to 20 V
Host	Requires N6700-series MPS or N6705 DC Power Analyzer mainframe
Operational Notes	N6733B is the later B-revision with the same 20 V / 2.5 A / 50 W ratings. Prefer Keysight N6700 Series Specifications Guide.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	N6733A
Manufacturer	Keysight Technologies (Agilent)
Instrument Type	Modular DC Power Supply Module
Family	N6700 Series (N6731-N6736 50 W class)
Alias	N6733A; Agilent N6733A

DC Output

Specifications

PARAMETER	VALUE
Voltage	0 to 20 V
Current	0 to 2.5 A
Power	50 W

Ripple (N6733B/N6743B voltage-group class)
CV peak-to-peak: 14 mV
CV rms: 3 mV
(from N6700 specs guide PARD table for this voltage group)

Host
Requires N6700-series MPS or N6705 DC Power Analyzer mainframe

Operational Notes
N6733B is the later B-revision with the same 20 V / 2.5 A / 50 W ratings. Prefer Keysight N6700 Series Specifications Guide.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.